|Overview|

The Fast Ethernet industrial Switch, providing 6x10/100Base-Tx auto-sensed RJ45 ports 2x100Base-Fx SFP ports uplink, is a reliable and high-performance connectivity solutions under harsh environment, such as transportation, telecom, security, bank, customs, harbor, power station, oilfield, etc.. It support wide working temperature from -40oC to +85 oC, IP40 protection level and DIN rail installation.

| Packing list |

Before installing, please check if the package and accessories is complete.

- Industrial Switch   x 1pc
- Power cord   x 1pc
- Power adapter   x 1pc
- Quick Installation Guide   x 1pc

If you find any components damaged or missing during transport, please inform our company or distributors as soon as possible.

|Features|

- Support 6x10/100Base-Tx RJ45 Ethernet ports
- Support 2x100Base-Fx SFP uplink ports
- Support 1.25G SFP transceivers
- Support 10/100Base-T auto-sensed
- Support Full/half duplex auto-sensed
- Support MDI/MDI-X aut-sensed
- Support IP 40 protection
- Power: DC10~58V, redundancy backup
- Support Lightning and anti-static protection
- Support DIN-rail installation
- Low consumption and heat dissipation, no fans design
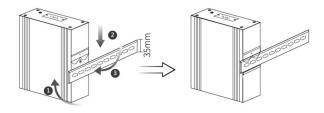- Working temperature: -40℃ ~ +85℃

|LED Indicator|

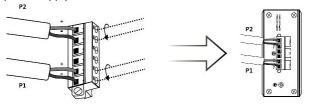| PWR (Red)	ON	Power Normal
	OFF	No power
1-6 (Green)	ON	Port is connected
	OFF	Port is disconnected
	Flash	Port is connected and data is transmitting
1-6 (Yellow)	ON	Data rate is 100M
	OFF	Data rate is 10M
7-8 (Green)	ON	7-SFP1, 8-SFP2 port is connected
	OFF	7-SFP1, 8-SFP2 port is disconnected

|Installation Guide|

DIN rail installation

① To hold the switch upwards, and put the upside clasp of the buckle into the DIN rail;

② Press the switch down to let the lower side of the buckle snap into the DIN rail;

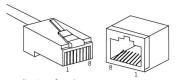③ Check the switch is installed firmly on DIN rail

Power Terminal connection

The industrial switches provide dual power backup. When both power supplies are connected, only one power supply operates. When this power failure occurs, it automatically switches to another power supply to achieve redundancy protection of the power supply.
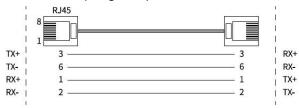

Note: please connect the positive "+" and negative "-" pole correctly according to the panel symbols under terminal block, and put in the right power voltage. 24VDC is recommended.
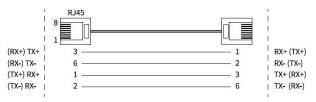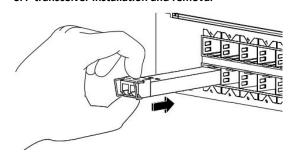
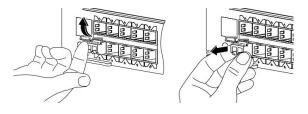**Ethernet Connector**

100M MDI cable (straight line)

TX+	3	──	3	RX+
TX-	6	──	6	RX-
RX+	1	──	1	TX+
RX-	2	──	2	TX-

100M MDI-X cable (cross line)

(RX+) TX+	3	──	1	RX+ (TX+)
(RX-) TX-	6	──	2	RX- (TX-)
(TX+) RX+	1	──	3	TX+ (RX+)
(TX-) RX-	2	──	6	TX- (RX-)

SFP transceiver installation and removal

|Specification|

Items	Specifications
Ethernet port	6x10/100Base-Tx RJ45
Optical port	2x 100Base-Fx SFP
Standards	IEEE 802.3i 10BASE-T; IEEE 802.3u 100BASE-TX/FX, IEEE 802.3x Flow Control,
Switching	Capacity: 1.6Gbps Package Forwarding Rate: 0.744Mpps MAC address table: 1K Package buffer: 512k Support store-and-forward transmission
Delay	<4µs
Transmission distance	2km @ MMF (50/125µm), 20~100km @ SMF, 100m @ Cat5e
Input voltage	DC10~58 (redundancy backup)
Power connector	Crimp terminal
Consumption	<3W
LED indicators	Power, TX Link/ACT, TX data rate, FX Link/ACT,
Working temperature	-40 ℃ ~ +85 ℃
Storage temperature	-40 ℃ ~ +85 ℃
Relative Humidity	5~95% (no condensing)
Dimension	143*104*48mm
Net Weight	650g
MTBF	100,000hrs

Safety Instructions

When a connector is removed during installation, testing, or servicing, or when an energized fiber is broken, a risk of ocular exposure to optical energy that may be potentially hazardous occurs, depending on the laser output power.

The primary hazards of exposure to laser radiation from an optical-fiber communication system are:

- Damage to the eye by accidental exposure to a beam emitted by a laser source.

- Damage to the eye from viewing a connector attached to a broken fiber or an energized fiber.

DIGISOL

DIGISOL DIN-Rail Unmanaged Industrial Fast Ethernet Switch

DG-IS1008F Ver. B1
Quick Installation Guide

The document is subject to change without prior notice.